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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,461	01/21/2004	Jun Someya	1190-0581P	1408
2292	7590	05/11/2007	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			LIANG, REGINA	
		ART UNIT	PAPER NUMBER	
		2629		
		NOTIFICATION DATE	DELIVERY MODE	
		05/11/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary	Application No.	Applicant(s)	
	10/760,461	SOMEYA ET AL.	
	Examiner	Art Unit	
	Regina Liang	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 26 February 2007.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-8, 10-14 and 16-39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 1-8, 12-14, 16-23, 25-29, 32 and 34-36 is/are allowed.
- 6) Claim(s) 10, 11, 24, 30, 31, 33 and 37 is/are rejected.
- 7) Claim(s) 38, 39 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

1. This Office Action is responsive to amendment filed 2/26/07. Claims 1-8, 10-14, 16-39 are pending in the application.
2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

3. Claims 10-11, 24, 30-31, 33, 37 are rejected under 35 U.S.C. 102(e) as being anticipated by Sakashita (US 6,661,400).

As to claims 10, 24, 33, Sakashita discloses an image data processor for liquid-crystal display that generates image data determining voltages applied to a liquid crystal from gray-scale values of an input image made up a series of frame, the image data processor comprising: a data conversion unit (204, Fig. 1) for reducing the number of bits of an inept image data of a present frame, thereby generating a first converted image data corresponding to the present frame; a delay unit (206, Fig. 1) delaying the first converted image data for an interval corresponding to one frame and outputting a second converted image data corresponding to a previous frame; a compensation data generator (205, 207, Fig.1) for generating compensation data for adjusting the gray-scale value of the present frame according to the first converted image data and the second converted image data; and a compensation unit (209, Fig. 1) for generating the image data according to the image data and the compensation image data.

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As to claim 11, Sakashita discloses the compensation data cause the liquid crystal to reach transmissivity values corresponding to the gray-scale values of the input image within substantially one frame interval (see Fig. 2).

As to claims 30, 31, 37, Sakahita discloses an image data processor (Fig. 1) for adjusting transmissivity values of liquid crystal comprising: an encoding unit (202, 204 Fig. 1) for encoding an input image data of a present frame and outputting an encoded image data; and a processing unit (Fig. 1) for processing the input image data using the encoded image data; wherein the image data processed by the processing unit includes data that changes a transmissivity corresponding to the frame prior to the present frame to a transmissivity corresponding to the present frame within substantially one frame interval (see Figs. 3A and 3B).

Allowable Subject Matter

4. Claims 1-8, 12-14, 16-23, 25-29, 32, 34-36 are allowed.
5. Claims 38 and 39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments filed 2/26/07 have been fully considered but they are not persuasive.

Applicant's remarks regarding claims 10, 24 and 33 on pages 2-3 are not persuasive. Applicant argues that Sakashita's system delays the arithmetic process data obtained from the

first converted data but does not delay the first converted data, which is not persuasive. Sakashita delays the arithmetic process data obtained from the first converted data, which reads on delays the first converted data. Applicant's claims do not require the delay circuit directly delay the first converted data, as long as the converted data is delayed in Sakashita will meet the claim. Applicant also argues Sakashita's system is done for the black and the white levels only and not the gray level, this is not persuasive. Sakashita's system is for improving the hysteresis of the panel, the hysteretic characteristic is related to the display brightness corresponding to the gradation level of the display (col. 3, lines 1-62 for example), therefore, Sakashita's system is not only for the black and white levels but also for the gray level.

In response to applicant's remarks regarding claims 30 and 31, Sakashita teaches changing the brightness level from the input frame into the display brightness of the present frame, which reads on changing a transmissivity corresponding to the frame prior to the present frame to a transmissivity corresponding to the present frame within substantially one frame interval as claimed.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

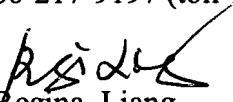
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Regina Liang whose telephone number is (571) 272-7693. The examiner can normally be reached on Monday-Friday from 8AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Regina Liang
Primary Examiner
Art Unit 2674

5/2/07